AUTHOR INDEX TO VOLUME 34

Alford C an B 7 D Foundary	24 (1000) 252
Aléonard, S., see R.Z.D. Fernandes	34 (1989) 253
Andersen, N.H., see L. Nilsson	34 (1989) 111
Angell, C.A., see J. Liu	34 (1989) 87
Angell, C.A. and J. Zhou, Effect of pressure on conductivity in liquid and glassy states of a superionic conducting glass	24 (1000) 242
Asai, T., S. Kawai, H. Yumoto and S. Takagi, Effect of surface modification with an alkali	34 (1989) 243
or alkaline earth cation upon the composite solid electrolyte of lithium iodide and	24 (1000) 106
alumina	34 (1989) 195
Aviani, I., see M. Horvatić	34 (1989) 21
Barboux, P. and J. Livage, Ionic conductivity in fibrous Ce(HPO ₄) ₂ ·(3+x)H ₂ O	34 (1989) 47
Barth, St. and A. Feltz, Structure and ionic conduction in solids. VII. Ion conducting glasses	
in the system Na ₂ O-Nb ₂ O ₅ -P ₂ O ₅	34 (1989) 41
Bates, J.B., see N.J. Dudney	34 (1989) 53
Battut, J.P., see C. Forano	34 (1989) 7
Besse, J.P., see C. Forano	34 (1989) 7
Boukamp, B.A., see I.C. Vinke	34 (1989) 235
Brach, I., D.J. Jones and J. Roziére, Acid sulphates of trivalent metals: a new class of pro-	
tonic conductors	34 (1989) 181
Bray, P.J., see D.E. Hintenlang	34 (1989) 207
Burggraaf, A.J., see I.C. Vinke	34 (1989) 235
Caillet, M., see A. Skalli	34 (1989) 261
Cameron, G.G., J.L. Harvie and M.D. Ingram, The steady state current and transference	
number measurements in polymer electrolytes	34 (1989) 65
Cappelletti, R.L., see P.K. Lemaire	34 (1989) 69
Chacón, M., see R.A. Vargas	34 (1989) 93
Chen, LQ., see R. Xue	34 (1989) 231
Chioba, E.R., see T.A. Kuku	34 (1989) 141
Chiodelli, G., see T.A. Kuku	34 (1989) 141
Chippindale, A.M., see P.G. Dickens	34 (1989) 79
Chiranjivi, T., see S. Narender Reddy	34 (1989) 73
Colombet, P., see P. Le Bail	34 (1989) 127
De Vries, K.J., see I.C. Vinke	34 (1989) 235
Dickens, P.G., A.M. Chippindale and S.J. Hibble, Ion insertion reactions at a vanadium	()
pentoxide cathode	34 (1989) 79
Dissanayake, M.A.K.L., Solid state cells with mixed polycrystalline CuCl-CuCNS elec-	
trolyte and Mg/Cu electrodes	34 (1989) 257
Dudney, N.J. and J.B. Bates, Ion exchange reaction of silver and sodium β"-alumina in	
molten mercury salts	34 (1989) 53
Dupuis, J., see C. Forano	34 (1989) 7

Eckert, J., see W.S. Glaunsinger	34 (1989) 281
Ermolenko, Yu.E., see Yu.G. Vlasov	34 (1989) 157
Esaka, T., K. Okuyama and H. Iwahara, Ionic conduction in sintered fluorocomplexes	
Li_mMF_6 , $M=Al$, Ti	34 (1989) 201
Esaka, T., Y. Kobayashi, H. Obata and H. Iwahara, Cation conduction in zircon-type solid	
solution based on YPO ₄	34 (1989) 287
Feltz, A., see St. Barth	34 (1989) 41
Fernandes, R.Z.D., S. Aléonard, J. Ilali, A. Hammou and M. Kleitz, An ionic rectifying	
contact	34 (1989) 253
Forano, C., J.P. Besse, J.P. Battut, J. Dupuis and A. Hajjimohamad, 1H NMR and con-	
ductivity studies of protonic conductors HSbO ₃ ·nH ₂ O and SnO ₂ ·nH ₂ O	34 (1989) 7
Gallerie, A., see A. Skalli	34 (1989) 261
Glasse, M.D., see M.H. Sheldon	34 (1989) 135
Glaunsinger, W.S., see M.J. McKelvy	34 (1989) 211
Glaunsinger, W.S., see G.W. O'Bannor	34 (1989) 215
Glaunsinger, W.S., M.J. McKelvy, E.M. Larson, R.B. Von Dreele, J. Eckert and N.L. Ross,	***************************************
Incoherent inelastic neutron scattering investigation of ammoniated titanium disulfide	34 (1989) 281
Glazunov, S.V., see Yu.G. Vlasov	34 (1989) 157
Greenbaum, S.G., see D.E. Hintenlang	34 (1989) 207
Greenbaum, S.G., see R.E. Stark	34 (1989) 275
Hajjimohamad, A., see C. Forano	34 (1989) 7
Hammou, A., see R.Z.D. Fernandes	34 (1989) 253
Harvie, J.L., see G.G. Cameron	34 (1989) 65
Hibble, S.J., see P.G. Dickens	34 (1989) 79
Hintenlang, D.E., E.J. Holupka, P.J. Bray and S.G. Greenbaum, 27Al NMR study of mixed	
alkali effects in β-alumina	34 (1989) 207
Holupka, E.J., see D.E. Hintenlang	34 (1989) 207
Horvatić, M., I. Aviani and M. Ilić, Two-point dc ionic conductivity measurements in the	
superionic phase of Cu _{2-x} Se	34 (1989) 21
Hunter, E.R., see P.K. Lemaire	34 (1989) 69
Ilali, J., see R.Z.D. Fernandes	34 (1989) 253
Ilić, M., see M. Horvatić	34 (1989) 21
Inganäs, O., see P. Passiniemi	34 (1989) 225
Ingram, M.D., see G.G. Cameron	34 (1989) 65
Iwahara, H., see H. Uchida	34 (1989) 103
Iwahara, H., see T. Esaka	34 (1989) 201
Iwahara, H., see T. Esaka	34 (1989) 287
Jacob, K.T. and S.K. Ramasesha, Design of temperature-compensated reference electrodes	
for non-isothermal galvanic sensors	34 (1989) 161
Jacob, K.T., K. Swaminathan and O.M. Sreedharan, Stability constraints in the design of	
galvanic cells using composite electrolytes and auxiliary electrodes	34 (1989) 167
Jacob, K.T., see G.M. Kale	34 (1989) 247

Jones, D.J., see I. Brach	34 (1989) 181
Julien, C. and M. Massot, Annealing studies of fast ion conducting glasses by FTIR microscopy	34 (1989) 269
increasepy	34 (1909) 209
Kale, G.M. and K.T. Jacob, Phase relations and thermodynamic properties of compounds	
in the pseudobinary system BaO-Y2O3	34 (1989) 247
Kaneko, H., see H. Taimatsu	34 (1989) 25
Kawagoe, M., see H. Taimatsu	34 (1989) 25
Kawai, S., see T. Asai	34 (1989) 195
Kleitz, M., see R.Z.D. Fernandes	34 (1989) 253
Kobayashi, Y., see T. Esaka	34 (1989) 287
Kolodnikov, V.V., see Yu.G. Vlasov	34 (1989) 157
Kuku, T.A., G. Chiodelli and E.R. Chioba, Electrical properties of CuPbBr ₃	34 (1989) 141
Labidi, F., J. Morcos and J. Salardenne, Study of the electrical properties of LaF ₃ thin films	34 (1989) 1
Larson, E.M., see W.S. Glaunsinger	34 (1989) 281
Latham, R.J., see M.H. Sheldon	34 (1989) 135
Le Bail, P., P. Colombet and J. Rouxel, Synthesis and properties of new intercalates	
$Eu_xZrSe_{1.95}$	34 (1989) 127
Lemaire, P.K., E.R. Hunter and R.L. Cappelletti, A new mixed conductor: Ag, CS2	34 (1989) 69
Linford, R.G., see M.H. Sheldon	34 (1989) 135
Liu, J., J. Portier, B. Tanguy, JJ. Videau and C.A. Angell, Glass formation and conductivity in the Ag ₂ S-AgPO ₃ system: evidence against cluster pathway mechanisms for high	
ionic conductivity	34 (1989) 87
Livage, J., see P. Barboux	34 (1989) 47
Lundén, A., see L. Nilsson	34 (1989) 111
Marzke, R.F., see G.W. O'Bannor	34 (1989) 215
Massot, M., see C. Julien	34 (1989) 269
McKelvy, M.J. and W.S. Glaunsinger, On the synthesis, stability and characterization of	
ammoniated and metal-ammoniated transition metal disulfide intercalation compounds	34 (1989) 211
McKelvy, M.J., see G.W. O'Bannor	34 (1989) 215
McKelvy, M.J., see W.S. Glaunsinger	34 (1989) 281
Morcos, J., see F. Labidi	34 (1989) 1
Musinu, A., G. Paschina, G. Piccaluga and G. Pinna, Towards a model of silver halide-	
silver oxysalt glassy electrolytes	34 (1989) 187
Narender Reddy, S., A. Sadananda Chary, K. Saibabu and T. Chiranjivi, Enhancement of	
dc ionic conductivity in dispersed solid electrolyte system - Sr(NO ₃) ₂ :γ-Al ₂ O ₃	34 (1989) 73
Nazri, G., Preparation, structure and ionic conductivity of lithium phosphide	34 (1989) 97
Nilsson, L., N.H. Andersen and A. Lundén, The structure of the solid electrolyte LiAgSO ₄ at 803 K and of LiNaSO ₄ at 848 K	34 (1989) 111
O'Bannor, G.W., M.J. McKelvy, W.S. Glaunsinger and R.F. Marzke, Structure and dy-	
namics of ammonia in Li-ammonia intercalated TiS2: a proton NMR study, Solid State	
Ionics 32/33 (1989) 167. Erratum	34 (1989) 215
Obata, H., see T. Esaka	34 (1989) 287
Okano, Y., see M. Yoshimura	34 (1989) 61
Okuyama, K., see T. Esaka	34 (1989) 201

Author index

Pak, Y.S., see R.E. Stark	34 (1989) 275
Paschina, G., see A. Musinu	34 (1989) 187
Passiniemi, P. and O. Inganäs, Modelling of polymer batteries	34 (1989) 225
Piccaluga, G., see A. Musinu	34 (1989) 187
Pinna, G., see A. Musinu	34 (1989) 187
Portier, J., see J. Liu	34 (1989) 87
Quintana, P., F. Velasco and A.R. West, Lithium ion conducting solid solutions in the sys-	
tem Li ₂ O-Ga ₂ O ₃ -SiO ₂	34 (1989) 149
Ramasesha, S.K., see K.T. Jacob	34 (1989) 161
Ross, N.L., see W.S. Glaunsinger	34 (1989) 281
Rouxel, J., see P. Le Bail	34 (1989) 127
Roziére, J., see I. Brach	34 (1989) 181
Sadananda Chary, A., see S. Narender Reddy	34 (1989) 73
Saibabu, K., see S. Narender Reddy	34 (1989) 73
Salardenne, J., see F. Labidi	34 (1989) 1
Seshan, K., see I.C. Vinke	34 (1989) 235
Sheldon, M.H., M.D. Glasse, R.J. Latham and R.G. Linford, The effect of plasticiser on	24 (1090) 125
zinc polymer electrolytes	34 (1989) 135
Skalli, A., A. Gallerie and M. Caillet, Thermal corrosion of a chromium-molybdenum steel	24 (1000) 2(1
by SO ₂ . Kinetic, thermodynamic and morphological aspects	34 (1989) 261
Smayling, M.C., VLSI CMOS technology for low power sensor applications	34 (1989) 121
Sōmiya, S., see M. Yoshimura	34 (1989) 61
Sreedharan, O.M., see K.T. Jacob	34 (1989) 167
Stark, R.E., S.G. Greenbaum and Y.S. Pak, ¹³ C NMR studies of poly(propylene oxide) complexed with alkali iodides	34 (1989) 275
Stoch, A. and J. Stoch, XPS studies of chemical interaction between modified phosphate	
coatings and iron	34 (1989) 17
Stoch, J., see A. Stoch	34 (1989) 17
Swaminathan, K., see K.T. Jacob	34 (1989) 167
Taimatsu, H., H. Kaneko and M. Kawagoe, Amperometric determination of reducing gas	
amounts in argon by an oxygen pump-gauge	34 (1989) 25
Takagi, S., see T. Asai	34 (1989) 195
Tanguy, B., see J. Liu	34 (1989) 87
Trochez, J.C., see R.A. Vargas	34 (1989) 93
Uchida, H., H. Yoshikawa and H. Iwahara, Formation of protons in SrCeO ₃ -based proton conducting oxides. Part I. Gas evolution and absorption in doped SrCeO ₃ at high	
temperature	34 (1989) 103
Valverde-Diez, N. and J.B. Wagner Jr., Electronic conduction in AgI(Al ₂ O ₃) composites	34 (1989) 175
Vargas, R.A., M. Chacón and J.C. Trochez, Specific heat of KDP near the tetragonal-mono-	
clinic phase transition	34 (1989) 93
Velasco, F., see P. Quintana	34 (1989) 149

Videau, JJ., see J. Liu	34 (1989) 87
Vinke, I.C., K. Seshan, B.A. Boukamp, K.J. de Vries and A.J. Burggraaf, Electrochemical	
properties of stabilized δ-Bi ₂ O ₃ . Oxygen pump properties of Bi ₂ O ₃ -Er ₂ O ₃ solid solutions	34 (1989) 235
Vlasov, Yu.G., Yu.E. Ermolenko, S.V. Glazunov and V.V. Kolodnikov, Diffusion of silver	(,
and ionic conductivity in the solid electrolytes Ag ₂ HgS ₂ I ₄ and Ag ₄ I ₄ WO ₄	34 (1989) 157
Von Dreele, R.B., see W.S. Glaunsinger	34 (1989) 281
Wagner Jr., J.B., see N. Valverde-Diez	34 (1989) 175
Wang, D., W. Yu and B. Zhu, A special solid electrolyte - montmorillonite	34 (1989) 219
Watanabe, A., Phase relations of hexagonal and cubic phases in holmia-doped bismuth	
sesquioxide, $Bi_{2-2x}Ho_{2x}O_3$ (x=0.205-0.245)	34 (1989) 35
West, A.R., see P. Quintana	34 (1989) 149
Xiao, C., see R. Xue	34 (1989) 231
Xue, R., LQ. Chen and C. Xiao, Study in anticorrosion of metal through using Na-β-Al ₂ O ₃	34 (1989) 231
Yoshikawa, H., see H. Uchida	34 (1989) 103
Yoshimura, M., Y. Okano and S. Sōmiya, Stability regions of cubic and tetragonal phases	
in the system ZrO ₂ -YF ₃ -YO _{1.5}	34 (1989) 61
Yu, W., see D. Wang	34 (1989) 219
Yumoto, H., see T. Asai	34 (1989) 195
Zhou, J., see C.A. Angell	34 (1989) 243
Zhu, B., see D. Wang	34 (1989) 219



SUBJECT INDEX TO VOLUME 34

Ac calorimetry, 93 Aluminosilicate, 219 Ammonia, 211 Ammoniated titanium disulfide, 281 Amorphous cluster, 187 Amperometric measurements, 25 Antimonic acid, 7 Aqueous electrolyte, 79

Battery, 219 modelling, 225 polymer, 225 β"-alumina, 207, 231 mercury, 53 Bismuth oxide, 35

Cell characteristics, 257
Cerium phosphate, 47
Clay, 219
Cluster pathway mechanisms, 87

13C NMR, 275
CMOS (Complementary Metal Oxide Semiconductor) technology, 121
Complex impedance, 47
Composite electrolytes, 167, 175, 195, 247
Copper selenide mixed conductor, 21
Corrosion, 17, 231, 261

Diffuse scattering, 111 Diffusion coefficient, 69, 157 Dispersed Solid Electrolyte System (DSES), 73 Dispersoid, 73

Electrochemistry, 235 Electrode temperature compensated, 161 Electrolysis, 201 Electronic conductivity, 141, 175 Ellingham diagrams, 167

FTIR, 269

Glass, 41, 187, 243, 269 Glass formation, 87

Host matrix, 73 Hydrated ions, 219 IINS (Incoherent Inelastic Neutron Scattering), 281 Intercalation, 127, 211 Interface, 73 polarisation, 253 Ion exchange, 53 Ion insertion, 79 Ionic conductivity, 21, 65 calcium, 287 lithium, 97, 149, 195, 201, 269, 287 lithium gallium silicate, 149 oxygen, 35 proton, 7, 47, 103, 181 silver, 69, 87, 157, 187 sodium, 41 zinc, 135 Ionic contact, 253 Ionic thermocurrents, 1 IR spectroscopy, 181

KDP, 93

Lanthanum fluoride, 1 Lithium aluminum fluoride, 201 Lithium phosphide, 97 Lithium titanium fluoride, 201

Magnetic susceptibility, 127 Mixed electrolyte, 257 Mixed ions, 207 Mössbauer spectroscopy, 127

Neutron diffraction, 111 NMR, 207, 211 Nobel metals, 235 Nonstoichiometry, 21

Oxygen exchange rates, 235 Oxygen pump gauge, 25 Oxygen pump rates, 235

Paddle-wheel mechanism, 111 Phase relations, 247 Phase stability, 35 Phase transition, 93 Phosphate coating, 17 Plasticiser, 135 Polyethylene oxide, 135 Polymer electrolytes, 275 Polymeric lithium conductivity, 65 Poly (propylene)oxide, 275 Pressure effects, 243 Pyrochlore, 7

Sensors, 1, 121, 161, 167
Silver carbon sulfide, 69
Silver halide, 187
Silver iodide, 175, 243
Silver phosphate, 243
Solid electrolytes, 207
Solid polymer electrolytes, 225
Solid state cell, 257
Steel, 261
Strontium cerium oxide, 103
Sulfate
layer structure, 181
Sulfur dioxide, 261
Surface films, 231
Surface modification, 195

Thermal analysis, 141
Thermodynamics, 53, 61, 103, 161, 167, 247
Thin films, 1
Titanium disulfide, 211
Transference number, 65, 141

Vanadium pentoxide electrode, 79

X-ray structure, 121, 141 study, 111 XPS, 17

Yttrium fluoride, 61 Yttrium oxide, 61 Yttrium phosphate, 287

Zirconia, 61, 161 Zirconia electrode, 25 Zirconium selenide, 127

